Journal of Power Sources 148 (2005) 130-132



www.elsevier.com/locate/jpowsour

# Subject Index of Volume 148

AB5-type hydrogen storage alloy

Substituting Co with Fe; As-cast and quenched; Microstructure; Cycle stability (Zhang, Y.-H. (148) 105)

Activated carbon

Polymer electrolyte fuel cell; Oxygen reduction; Pore structure; Organic acid; Adsorption (Maruyama, J. (148) 1)

Activation energy

Nafion membrane; Proton conductivity; Surface morphology; Alcohols (Affoune, A.M. (148) 9)

Additive

Lithium-ion batteries; High-rate discharge properties; LiCoO<sub>2</sub>; Ag (Huang, S. (148) 72)

Adsorption

Polymer electrolyte fuel cell; Oxygen reduction; Activated carbon; Pore structure; Organic acid (Maruyama, J. (148) 1)

Ag

Lithium-ion batteries; High-rate discharge properties; LiCoO<sub>2</sub>; Additive (Huang, S. (148) 72)

Alcohols

Nafion membrane; Proton conductivity; Activation energy; Surface morphology (Affoune, A.M. (148) 9)

Anthermal reforming

Polymer electrolyte fuel cell; Fuel processor; Optimization; Steam reforming; Preferential oxidation (Lin, S.-T. (148) 43)

As-cast and quenched

Substituting Co with Fe; AB<sub>5</sub>-type hydrogen storage alloy; Microstructure; Cycle stability (Zhang, Y.-H. (148) 105)

Cathode material

Li-ion battery; LiNi<sub>0.5</sub>Mn<sub>0.5-x</sub>Co<sub>x</sub>O<sub>2</sub>; Unequivalent substitution; Electrochemical behavior (Li, D. (148) 85)

Cathodes

Mono-chloronitrobenzene; Magnesium reserve batteries; Efficiency (Thirunakaran, R. (148) 112)

Chelating polymer

Gel-type polymer electrolytes; Conductivity; <sup>7</sup>Li solid-state NMR; FT–IR (Liang, Y.-H. (148) 55)

Conductivity

Gel-type polymer electrolytes; Chelating polymer; <sup>7</sup>Li solid-state NMR; FT–IR (Liang, Y.-H. (148) 55)

Crossover

Fuel Cell; Power loss; Leak resistance; Membrane; DMFC (Shen, M. (148) 24)

Cycle stability

Substituting Co with Fe; AB<sub>5</sub>-type hydrogen storage alloy; As-cast and quenched; Microstructure (Zhang, Y.-H. (148) 105)

DMFC

Fuel Cell; Power loss; Crossover; Leak resistance; Membrane (Shen, M. (148) 24) Doping

Lithium cobalt oxide; Plateau efficiency; Rechargeable battery (Xu, H.Y. (148) 90)

Efficiency

Mono-chloronitrobenzene; Cathodes; Magnesium reserve batteries (Thirunakaran, R. (148) 112)

Efficiency

Solid oxide fuel cell; Electrolyte; Methanol; Flow pattern; Steam requirement (Assabumrungrat, S. (148) 18)

EIS

Li-ion rechargeable battery; LiCoO<sub>2</sub>; SEI; Vinylene carbonate; Ethylene sulfite (Itagaki, M. (148) 78)

Electrical conductivity

Solid oxide fuel cell; Solid electrolytes; Two-phase composite (Shiratori, Y. (148) 32)

Electrical double-layer capacitor

Fullerene-soot; Organic solvent electrolyte (Egashira, M. (148) 116)

Electrochemical behavior

Li-ion battery; Cathode material; LiNi<sub>0.5</sub>Mn<sub>0.5-x</sub>Co<sub>x</sub>O<sub>2</sub>; Unequivalent substitution (Li, D. (148) 85)

Electrochemical properties

Nanoporous carbon; Microstructure (Wen, Y. (148) 121)

Electrolyte

Solid oxide fuel cell; Efficiency; Methanol; Flow pattern; Steam requirement (Assabumrungrat, S. (148) 18)

Electrostatic spray deposition

Lithium metal olivine phosphate; Thin-film; Lithium ion battery (Ma, J. (148) 66)

Ethylene sulfite

Li-ion rechargeable battery; LiCoO<sub>2</sub>; EIS; SEI; Vinylene carbonate (Itagaki, M. (148) 78)

Expanded copper mesh grid

VRLA; Layer electroplating (Lushina, M. (148) 95)

Flow pattern

Solid oxide fuel cell; Electrolyte; Efficiency; Methanol; Steam requirement (Assabumrungrat, S. (148) 18)

FT-IR

Gel-type polymer electrolytes; Chelating polymer; Conductivity; <sup>7</sup>Li solid-state NMR (Liang, Y.-H. (148) 55)

Fuel Cel

Power loss; Crossover; Leak resistance; Membrane; DMFC (Shen, M. (148) 24)

Fuel processor

Polymer electrolyte fuel cell; Optimization; Anthermal reforming; Steam reforming; Preferential oxidation (Lin, S.-T. (148) 43)

Elsevier B.V.

doi:10.1016/S0378-7753(05)01079-7

#### Fullerene-soot

Electrical double-layer capacitor; Organic solvent electrolyte (Egashira, M. (148) 116)

## Gel-type polymer electrolytes

Chelating polymer; Conductivity; <sup>7</sup>Li solid-state NMR; FT–IR (Liang, Y.-H. (148) 55)

#### High-rate discharge properties

Lithium-ion batteries; LiCoO<sub>2</sub>; Ag; Additive (Huang, S. (148) 72)

#### Layer electroplating

VRLA; Expanded copper mesh grid (Lushina, M. (148) 95)

#### Leak resistance

Fuel Cell; Power loss; Crossover; Membrane; DMFC (Shen, M. (148) 24)

## LiCoO<sub>2</sub>

Li-ion rechargeable battery; EIS; SEI; Vinylene carbonate; Ethylene sulfite (Itagaki, M. (148) 78)

#### LiCoO<sub>2</sub>

Lithium-ion batteries; High-rate discharge properties; Ag; Additive (Huang, S. (148) 72)

#### Li-ion battery

Cathode material; LiNi<sub>0.5</sub>Mn<sub>0.5-x</sub>Co<sub>x</sub>O<sub>2</sub>; Unequivalent substitution; Electrochemical behavior (Li, D. (148) 85)

## Li-ion rechargeable battery

LiCoO<sub>2</sub>; EIS; SEI; Vinylene carbonate; Ethylene sulfite (Itagaki, M. (148) 78)

### LiNi<sub>0.5</sub>Mn<sub>0.5-r</sub>Co<sub>r</sub>O<sub>2</sub>

Li-ion battery; Cathode material; Unequivalent substitution; Electrochemical behavior (Li, D. (148) 85)

#### Lithium cobalt oxide

Lithium cobalt oxide; Doping; Plateau efficiency; Rechargeable battery (Xu, H.Y. (148) 90)

### Lithium ion battery

Electrostatic spray deposition; Lithium metal olivine phosphate; Thinfilm (Ma, J. (148) 66)

# Lithium metal olivine phosphate

Electrostatic spray deposition; Thin-film; Lithium ion battery (Ma, J. (148) 66)

### Lithium-ion batteries

High-rate discharge properties; LiCoO<sub>2</sub>; Ag; Additive (Huang, S. (148)

## Magnesium reserve batteries

Mono-chloronitrobenzene; Cathodes; Efficiency (Thirunakaran, R. (148) 112)

### Membrane

Fuel Cell; Power loss; Crossover; Leak resistance; DMFC (Shen, M. (148) 24)

### Methanol

Solid oxide fuel cell; Electrolyte; Efficiency; Flow pattern; Steam requirement (Assabumrungrat, S. (148) 18)

# Microstructure

Nanoporous carbon; Electrochemical properties (Wen, Y. (148) 121)

### Microstructure

Substituting Co with Fe; AB<sub>5</sub>-type hydrogen storage alloy; As-cast and quenched; Cycle stability (Zhang, Y.-H. (148) 105)

### Mono-chloronitrobenzene

Cathodes; Magnesium reserve batteries; Efficiency (Thirunakaran, R. (148) 112)

### Nafion membrane

Proton conductivity; Activation energy; Surface morphology; Alcohols (Affoune, A.M. (148) 9)

#### Nanoporous carbon

Microstructure; Electrochemical properties (Wen, Y. (148) 121)

### Optimization

Polymer electrolyte fuel cell; Fuel processor; Anthermal reforming; Steam reforming; Preferential oxidation (Lin, S.-T. (148) 43)

#### Organic acid

Polymer electrolyte fuel cell; Oxygen reduction; Activated carbon; Pore structure; Adsorption (Maruyama, J. (148) 1)

#### Organic solvent electrolyte

Electrical double-layer capacitor; Fullerene-soot (Egashira, M. (148) 116)

## Oxygen reduction

Polymer electrolyte fuel cell; Activated carbon; Pore structure; Organic acid; Adsorption (Maruyama, J. (148) 1)

### Plateau efficiency

Lithium cobalt oxide; Doping; Rechargeable battery (Xu, H.Y. (148) 90)

### Polymer electrolyte fuel cell

Fuel processor; Optimization; Anthermal reforming; Steam reforming; Preferential oxidation (Lin, S.-T. (148) 43)

### Polymer electrolyte fuel cell

Oxygen reduction; Activated carbon; Pore structure; Organic acid; Adsorption (Maruyama, J. (148) 1)

#### Pore structure

Polymer electrolyte fuel cell; Oxygen reduction; Activated carbon; Organic acid; Adsorption (Maruyama, J. (148) 1)

#### Power loss

Fuel Cell; Crossover; Leak resistance; Membrane; DMFC (Shen, M. (148) 24)

### Preferential oxidation

Polymer electrolyte fuel cell; Fuel processor; Optimization; Anthermal reforming; Steam reforming (Lin, S.-T. (148) 43)

### Proton conductivity

Nafion membrane; Activation energy; Surface morphology; Alcohols (Affoune, A.M. (148) 9)

### Rechargeable battery

Lithium cobalt oxide; Doping; Plateau efficiency (Xu, H.Y. (148) 90)

# SEI

Li-ion rechargeable battery; LiCoO<sub>2</sub>; EIS; Vinylene carbonate; Ethylene sulfite (Itagaki, M. (148) 78)

### 7Li solid-state NMR

Gel-type polymer electrolytes; Chelating polymer; Conductivity; FT–IR (Liang, Y.-H. (148) 55)

### Solid electrolytes

Solid oxide fuel cell; Two-phase composite; Electrical conductivity (Shiratori, Y. (148) 32)

### Solid oxide fuel cell

Electrolyte; Efficiency; Methanol; Flow pattern; Steam requirement (Assabumrungrat, S. (148) 18)

### Solid oxide fuel cell

Solid electrolytes; Two-phase composite; Electrical conductivity (Shiratori, Y. (148) 32)

### Steam reforming

Polymer electrolyte fuel cell; Fuel processor; Optimization; Anthermal reforming; Preferential oxidation (Lin, S.-T. (148) 43)

# Steam requirement

Solid oxide fuel cell; Electrolyte; Efficiency; Methanol; Flow pattern (Assabumrungrat, S. (148) 18)

### Substituting Co with Fe

AB<sub>5</sub>-type hydrogen storage alloy; As-cast and quenched; Microstructure; Cycle stability (Zhang, Y.-H. (148) 105)

# Surface morphology

Nafion membrane; Proton conductivity; Activation energy; Alcohols (Affoune, A.M. (148) 9)

### Thin-film

Electrostatic spray deposition; Lithium metal olivine phosphate; Lithium ion battery (Ma, J. (148) 66)

# Two-phase composite

Solid oxide fuel cell; Solid electrolytes; Electrical conductivity (Shiratori, Y. (148) 32)

### Unequivalent substitution

Li-ion battery; Cathode material;  $\text{LiNi}_{0.5}\text{Mn}_{0.5-x}\text{Co}_x\text{O}_2$ ; Electrochemical behavior (Li, D. (148) 85)

### Vinylene carbonate

Li-ion rechargeable battery; LiCoO<sub>2</sub>; EIS; SEI; Ethylene sulfite (Itagaki, M. (148) 78)

## VRLA

Expanded copper mesh grid; Layer electroplating (Lushina, M. (148) 95)